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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/852,376	05/10/2001	Eric A. Jacobsen	884.427US1	5426
21186	7590 10/12/2006		EXAMINER	
SCHWEGN	MAN, LUNDBERG, W	LY, ANH VU H		
P.O. BOX 2938 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
MINNEAPC	73, MIN 55402		2616	
			DATE MAILED: 10/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summer:	09/852,376	JACOBSEN, ERIC A.				
Office Action Summary	Examiner	Art Unit				
	Anh-Vu H. Ly	2616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 31 Ju	lv 2006.					
<u> </u>	action is non-final.					
<del>'=</del>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	, , , , , , , , , , , , , , , , , , ,					
·						
4) Claim(s) 1-3,5-14 and 16-29 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-3,5-14 and 16-29</u> is/are rejected.						
7) Claim(s) is/are objected to.	alastian raquirament					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) $\square$ objected to by the ${ t E}$	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

Application/Control Number: 09/852,376 Page 2

Art Unit: 2616

### **DETAILED ACTION**

## Response to Amendment

1. This communication is in response to applicant's amendment filed July 31, 2006. Claims 1-3, 5-14, and 16-29 are pending.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-3, 5-14, and 16-29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

With respect to claims 1, 7, 19, and 25, the method and/or device comprising the steps and/or means for receiving OFDM symbol, identifying sub-carriers of interest, generating pilot vector, obtaining interpolation vector, and calculating a dot product to generate an equalization coefficient for sub-carrier of interest has no practical application. The generated equalization coefficient and/or the computed channel estimate have no practical application. Therefore, the claimed invention is directed to non-statutory subject matter.

Claims 2-3, 5-6, 8-14, 16-18, 20-24, and 26-29 are rejected for the same reasons as set forth with respect to the independent claims 1, 7, 19, and 25.

## Response to Arguments

3. Applicant's arguments with respect to claims 1-3, 5-14, and 16-29 have been considered but are most in view of the new ground(s) of rejection.

Art Unit: 2616

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

avl

SUPERVISORY PATENT EXAMINER